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3. The principal steam power station (1) was located in an area called "Kanchintsu", It had the following equipment:

No	Turbine Generator	Manufacturer	Boiler	Mftr.	Trans- former	Year Constr.
3	25,000 Kw 25,000 Kw 25,000 Kw 4000 Kw x 2	Mitsubishi (MTB) Brown Boveri ""	140,000 Kg Steam/hr 140,000 Kg " " 140,000 Kg " "	MTB	27,500 KW 27,500 KW 27,500 KW	1933 1934 1934 1936

No.4 presided power for operation of the power house. Soviet soldiers removed all units and apt for No.4 in late 1945. The equipment was all in poor condition.

4. The secondary steam power station, (2) above, was located in a district called "Amanokawa". It has the following equipment:

No. I	Turbine 6 erator	Manufacturer Mitsubishi	Manufactured 1920
2	15,000 3	11	>
3	15,000	**	1930
-			1935

All of the equipment was in fair condition.

5. ANSHAN (41°07'N = 12°57'E)

The installation at Anshan was a substation located about six kilometers south of the railroad station and about two kilometers east of the railroad station.

- At Sup 'Ung Reservoir, a dam was constructed across the Yalu River and hydro generators were installed during the period 1938-1942. There were six generators, three Westinghouse and three Hitachi, each with about 100,000 Kw capacity. The power house supplied 50 cycle current to Manchuria and 60 cycle current to Korea. There was an arrangement whereby small amounts of 50 cycle current went to Korea and 60 cycle current went to Manchuria. In 1945, Soviet troops removed two of the generators supplying 50 cycle current to Manchuria. Another of the generators densition.
- 7. CHAN DUITSU (Approximately 1.040 N = 1220E)
 At him Duitsu, near Taian, a substation only was located.
- 8. FCO HSIN (4206°C 121042°E)

 To steam power pla: at Fou Hsin was located at the southwest corner of the juncture of the railr ad line and the main road going south. Enclosure B is a sketch of the layout of this power plant. The equipment installed was;—

No.	Turbine Generators	Manufacturer	Year
1	27,000 Kw	Siemens	1937
2	27,000 Kw		1937
3	53,000 Kw		1939
4	53,000 Kw		1942
5	53,000 Kw		1945

There were nine B & W boilers all with a capacity of 130,000 kg. of steam per hour. These were installed between 1937 and 1945.

- 9. On 20 Sept 1945, Soviet troops started dismantling and removing all equipment in the power house except the cooling towers. In 40 days all of the equipment had been removed and boxed on 30 ton capacity railroad cars for transport to the USSR.
- 10. I-HSIEN (41°31'N 121°15'E) had only a substation.

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11. PEI -P'IAO (41048'N. 120044'E)

The Fei-P'iao steem power plant was located about two kilometers southwest of the Railroad depot and about 100 meters northwest of the railroad line. Two 15,000 Kw turbine generators were installed, the first about 1937 and the second about 1939. In 1945, when Nationalists were about to retake Pei-P'iao, the Communist troops dynamited the power house.

12. CHIN-CHOU (41007'N - 121006'E) - had only a substation.

13. SHEN-YAMG (41°48'N - 123°27"E)

The Sher Yang steam power plant was located about six kilometers east of the railross station, and about 200 meters north of the main giver. It was planned that it power plant was to include; -

Numbers	Turbine	Generator	Manufacturer
1	53,000	Kw.	Siemens
2	53,000	Kw.	98
3 4	53,000	Kw	Mitsubishi
<u>l</u> į.	53,000	Kw	80
5	53,000	Kw	Zaikawa jima
6	53,000	KW	11

and 12 - 140,00 kg. of steam per hour boilers. Turbine generators #1 and #2 had not been delivered in Oct 1945. Numbers 3, 4, 5, and 6, had been delivered but the installation was incomplete. Soviet soldiers removed units three, through six, and the 12 boilers. The Hunko substation was located about four kilometers up-river from the power plant

14. FU-SHUN (41°52'N - 123°53'E)

The Fu-Shun steam power plant was located on the east of the railroad about three kilometers south of the railroad depot. In Sept 1945, the units installed were - -

Numbers	Turbine Generator	Year of Installation
1	10,000 KW	1921
2	12,500 "	1921
3	12,500 "	1921
ļĻ	25,000 "	1929
5	25,000 "	1929
6	50,000 "	1933
7	50,000 "	1935
8	50,000 *	1937
9	50,000 "	1940

Numbers 4 through 9 were of Mitsubishi or Siemens manufacture and were removed by the USSR in late 1945.

15. CH'ANG-CHUN (43°52'N - 125°21'E)

The Ch'ang-Chun steam power plant was located next to the railroad depot. Turbine generators installed here were --

No.1	5000 KW	Jungstrong	(Sweden)	1920
2	7500 KW	19		1920
3	14000 KW	Mitsybishi		1938
4	15000 KW	Hitachi	•	1940
5	15000 KW			1002

16. The Ch'ang-Chun substation was located about 10 kilometers south and one kilometer east of the railroad depot.

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17. HA-ERH-PIN (45°45' - 126°39'E)

The steam power plant was located on Machako Street about three kilometers south of the railroad depot. Turbine generators installed here were -

No.	Turbine Generator	Manufacturer	Year Installed
1	3000 KW	Siemens	1920
, 2	5000 KW	ti .	1920
3	7500 KW	11	1920
4	7500 kw	11	1930
5	14000 KW	Mitsubishi	1935
6	14000 KW	FF .	1940

18. CHI-LIN (43°51'N - 126°33'E)

The Shau-humman hydroelectric power plant was located on the Sungari River about 15 kilometers below Chi-Lin. Enclosure C is a sketch of this dam installation. The generators were as follows: --

No. 1	: ₀,000 kd	W 1940	O 50 Cycle	
2	30,000 KM	W in	17	
3	.00,000 Kg	W 11	12	
4	100,000 K		18	
5	100,000 K	•	construction -	50 cycle

Units two through five were removed by the USSR in the fall of 1945. Unit one, in good condition in 1945, remained.

- 19. CR NG-PO HU (43°50'N 128°53'E)
 Ch ing-Po Hu had a hydroelectric power plant of 30,000 kw, installed about 1938.

 ever visited this unit.
- 20. MU-LENG (MD-130°14-E)

 Nu-Ling had a steam power plant with two 15,000 kw Mitsubishi units installed about 1935.

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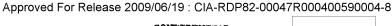
- 21. AN-TUNG (40 8'N 124°24'E)

 The An-Tung cower station was located on the north edge of the Yalu River about 200 meters south of the railroad bridge. The station had two 3000 kw turbine generators installed about 1937 and two 5000 kw turbine generators installed about 1942. In mid-1945, the generators were in good condition.
- 22. Other power plants in Manchuria which were not connected with the system of Enclosure A were: --

City Pei-Feng	Turbine Generators	Manufacturer	Year
(42 ⁰ 55'N-125 ⁰ 09'E)	$3 \times 15,000 \text{ KW}$	Mitsubishi	1938
Ch'i-Chi-Ha-Erb (47°22'N-123°57'E)	3 x 3,000 kW	Yshikawajima	1938 1940
Ch'eng-Te	2 x 5,000 KW		1940
(30 ⁶ 58'N-117°53'E)	4 x 800 KW (Diesel) 4 x 2500 " "		1925 1937
Chin Hsi (40°54'N-120°36'E)	1 x 15,000 KW	?	3 100

There were some 40 or 50 additional local power stations of less than 10,000 kW. These were strung out roughly 200 kilometers below the Siberian border.

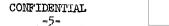
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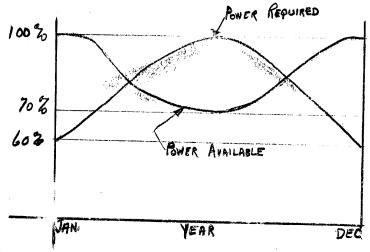
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23. The curves below flustrate the Manchurdan power situation in the period 1943 - 1944.



For hydroelectric power plants, 100% power was available from mid-May until late September. For steam power plants, 80% of the rated capacity was considered an economical loading.

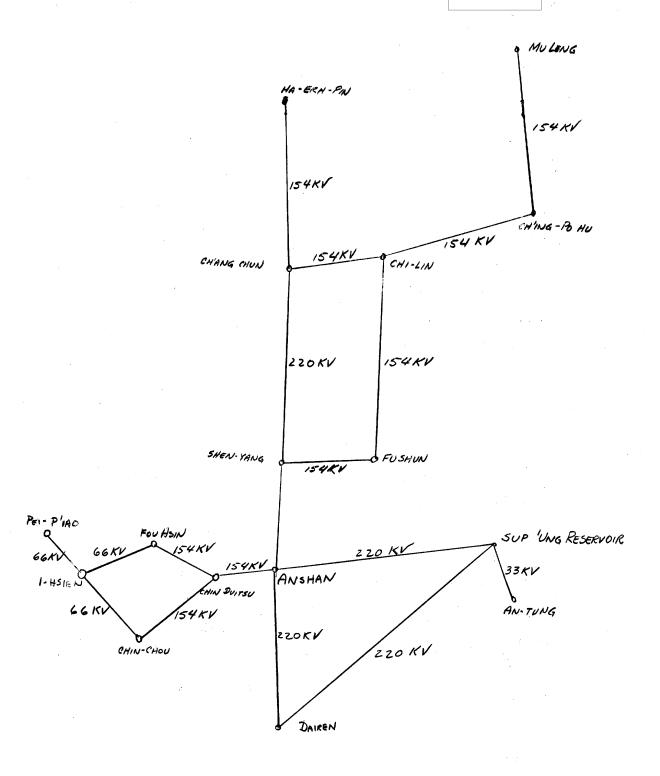
- 24. The Hun Ho River, running through Fu-Shun and Shen Yang was estimated to be capable of providing 2,500,000 kw of power. No dams had been constructed along this river until after, at least, 1945.
- 25. In Jun 1954,

in 1953 a maximum boiler pressure used in Manchurian power plants was 100 kg per square centimeter as compared with 38 kg per square centimeter used up to 1945. Undoubtedly the USSR has installed modern boilers.

meter used up to 1945. Undoubtedly the USSR has installed modern boilers

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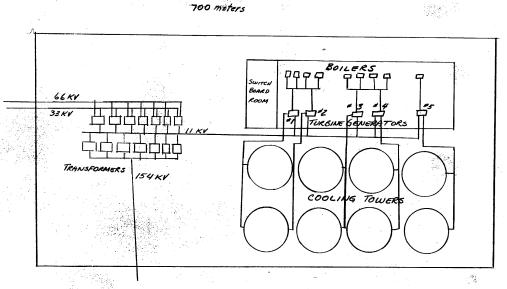


MANCHURIAN POWER TRANSMISSION LINES

ENCL A

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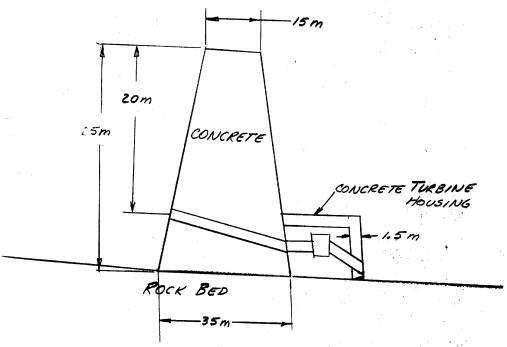
700 meters



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SCHEMATIC DRAWING OF FOU HSIN POWER PLAN

ENCL B



THE DAM EXTENDS ABOUT 100 meters
ACROSS THE SUNGARI RIVER.

SHAU-HUNMAN POWER PLANT DAM

ENCL C